SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED
(Mechanical Testing Laboratory Division)
ISO 9001:2015

Report No: SCEPL/MT/Jul/10/01/2020-21 **Date:15.07.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Jul/10/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	10.07.2020
Date of Test:	12.07.2020 to 15.07.2020
Sample Type/Size:	40 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: **15000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	375	375	2.5	97.5	90-100
3	20	5233	5608	37.39	62.61	30-70
4	10	4880	10488	69.92	30.08	10-35
5	4.75	3859	14347	95.65	4.35	0-5
6	Pan	653	15000	100.00	0.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.70
2	Water Absorption (%)		0.38
3	Bulk density	Loose (Kg/Liters)	1.50
		Compacted ((Kg/Liters)	1.75
4	Shape test	Flakiness Index (%)	15.80
		Elongation Index (%)	13.20

Remarks:-

The results pertain to the samples received and tested.

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Samples will be disposed after 90 days from the date of issue of test certificate

*** End of the report***

SHIPRAMA CONSULTING ENGINEERS PVT. LTD. Bangalore

Authorized Signatory

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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SHIPRAMA CONSULTING ENGINEERS PRIVATE LIMITED

(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL/MT/Jul/20/01/2020-21 **Date:25.07.2020**

TEST REPORT

***Client Name & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2020-21 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/Jul/20/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	20.07.2020
Date of Test:	22.07.2020 to 25.07.2020
Sample Type/Size:	40 mm down size aggregate
Reference to BIS codes:	IS: 383 - 1970 Reaffirmed 2011(Specification for Coarse and fine Aggregates from natural sources for concrete IS 2386 Part-1-1963.Reaffrimed-2002

1. Sieve analysis

Total weight taken: **15000** **grams**

Sample No.	Sieve Size mm	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970 (RA- 2011)
1	80	0	0	0	100	100
2	40	390	390	2.6	97.4	90-100
3	20	5133	5523	36.82	63.18	30-70
4	10	4980	10503	70.02	29.98	10-35
5	4.75	3879	14382	95.88	4.12	0-5
6	Pan	618	15000	100.00	0.00	--

Sl.no	Tests		Result
1	Specifica Gravity		2.65
2	Water Absorption (%)		0.54
3	Bulk density	Loose (Kg/Liters)	1.55
		Compacted ((Kg/Liters)	1.60
4	Shape test	Flakiness Index (%)	14.80
		Elongation Index (%)	12.20

Remarks:-

The results pertain to the samples received and tested.

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*** End of the report***

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(Mechanical Testing Laboratory Division)

ISO 9001:2015

Report No: SCEPL /MT/Mar/16/01/01/2020-21 **Date:23.03.2020**

TEST REPORT

***Client & Address:** Asst. Executive Engineer,
Vidyaranya Pura Sub Division
BBMP, Bangalore.

***Name of Work:** Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra

*** Letter Reference** No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020

CRF No/SCEPL ID: SCEPL/MT/2020/Mar/16/01

Source of Sample: Samples supplied by the Customer

Date of Receipt: 16.03.2020

Period of Test : 16.03.2020 to 23.03.2020

Grade of Cement : 53 Grade OPC

Sample Type & Brand: Cement, RAMCO

Reference to BIS codes:

IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physcical Test On Cement

SL. No	Name of Tests	Test Result	Min req. AS per IS-8112-1989 & IS-4031-1988
1	Initial setting Time in minutes	**158 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**270 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**1.92%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**2.09**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**28.44 N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**34.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

The results pertain to the samples received and tested.

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* Information furnished by the client

*** End of the report***

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/13/01/01/2020-21 **Date:20.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	13.05.2020
Period of Test :	13.05.2020 to 20.05.2020
Grade of Cement :	53 Grade OPC
Sample Type & Brand:	Cement, RAMCO
Reference to BIS codes:	IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physcical Test On Cement

SL. No	Name of Tests	Test Result	Min req. AS per IS-8112-1989 & IS-4031-1988
1	Initial setting Time in minutes	**158 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**270 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**1.92%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**2.09**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**28.44 N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**34.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

The results pertain to the samples received and tested.

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* Information furnished by the client

*** End of the report***

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Report No: SCEPL /MT/May/09/01/01/2020-21 **Date:16.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	09.05.2020
Period of Test	09.05.2020 to 16.05.2020
Sample Type & Size:	Reinforcement steel 10 mm TMT bars
Reference to BIS codes:	IS-1786-2008

Physcical Test On Cement

SL. No	Name of Tests	Test Result	Min req. AS per IS-8112-1989 & IS-4031-1988
1	Initial setting Time in minutes	**158 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**270 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**1.92%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**2.09**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**28.44 N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**34.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

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* Information furnished by the client

*** End of the report***

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SHIPRAMA Consulting Engineers Pvt. Ltd. * Bangalore

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/25/01/01/2020-21 **Date:01.06.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/19/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	25.05.2020
Period of Test :	25.05.2020 to 01.06.2020
Grade of Cement :	53 Grade OPC
Sample Type & Brand:	Cement, RAMCO
Reference to BIS codes:	IS-8112-1989 and IS-4031 (Part 1 to 6)-1988 Reaffrimed-2008

Physcical Test On Cement

SL. No	Name of Tests	Test Result	Min req. AS per IS-8112-1989 & IS-4031-1988
1	Initial setting Time in minutes	**158 min**	Shall not be less than 30 minutes
2	Final Setting time, in minutes	**270 min**	Shall not be more than 600 minutes
3	Fineness (by dry sieve on 90 Micron Sieve) %	**1.92%**	Not exceeded than 10.0%
4	Soundness Test (by Le-chatelier,s method)	**2.09**	Shall not be more than 10 mm
5	Compressive Strength a) 3 days (Average of three results)	**28.44 N/Sq mm**	Shall not be less than 27 N/Sq mm
	b)7 days (Average of the three Results)	**34.35 N/Sq mm**	Shall not be less than 27 N/Sq mm

Remarks:-

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Page 1/1

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/09/01/2020-21 **Date:12.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
*** Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	09.05.2020
Period of Test	09.05.2020 to 12.05.2020
Brand Name & Grade of Steel	Indus, Fe-500
Sample Type & Size:	Reinforcement steel 10 mm bars
Reference to BIS codes:	IS-1786-2008, IS:1608-2005(Ra-2011),IS:1599-2012

1.Steel Bars

Sl. No	Details	Per 10 mm bar	
		Test Result	Min req. AS per IS-1786-2008
1	Observed Diameter of the bar	10.0 mm	10.0mm
2	Observed Wt/m Length of Bar in Kg/m	0.621	0.567
3	Proof Stress/Yield Stress,fy, N/mm2	538	500
4	Bend /Rebend Test	Satisfotory	Pass
5	Percentage of Elongation, %	21.3	12.00
6	Ultimate Tensile Stress N/mm2	636.0	545.0

Remarks:-

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* Information furnished by the client

*** End of the report***

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(Mechanical Testing Laboratory Division)

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Report No: SCEPL /MT/May/09/01/2020-21 **Date:12.05.2020**

TEST REPORT

***Client & Address:**	Asst. Executive Engineer, Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
CRF No/SCEPL ID:	SCEPL/MT/2020/May/09/01
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	09.05.2020
Period of Test	09.05.2020 to 12.05.2020
Brand Name & Grade of Steel	Indus, Fe-500
Sample Type & Size:	Reinforcement steel 12 mm bars
Reference to BIS codes:	IS-1786-2008, IS:1608-2005(Ra-2011),IS:1599-2012

1.Steel Bars

SL. No	Details	Per 12 mm bar	
		Test Result	Min req. AS per IS-1786-2008
1	Observed Diameter of the bar	**12.0 mm**	12.0mm
2	Observed Wt/m Length of Bar in Kg/m	**0.885**	0.827
3	Proof Stress/Yield Stress,fy, **N/mm2**	**576**	500
4	Bend /Rebend Test	**Satisfoctory**	Pass
5	Percentage of Elongation, %	**19%**	12.00
6	Ultimate Tensile Stress **N/mm2**	**620.0**	545.0

Remarks:-

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*** End of the report***

SHIPRAMA Consulting Engineers PVT. LTD. Bangalore

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Report No:SCEPL/MT/May/05/01/01/2020-21 **Date:09.05.2020**

TEST REPORT

***Client Name& Address:**	Asst. Executive Engineer Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference:**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
SCEPL ID	SCEPL/MT/2020/May/05/01
Agency	
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	02.05.2020
Sample Type/Size/ Grade/Age:	CC Cubes/150mmx150mmx150mm/7 days Compressive Strength
Reference to BIS codes:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
***Grade of concrete**	M20
***Location**	U Drain Bottom Raft

Compressive strength of Concrete cube

Sl. No.	Identification mark	Date of Casting	Date of Testing	Dimension of the Specimen mm			Cross sectional area (Sq.mm)	Weight (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
				L	B	H					
1	May/02/01-01	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.050	365.9	16.26	16.47
	May/02/01-02	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.100	356.7	15.86	
	May/02/01-03	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	388.5	17.28	
2	May/02/01-04	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.050	345.9	15.37	15.88
	May/02/01-05	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.100	366.7	16.31	
	May/02/01-06	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	358.5	15.94	

Remarks:-

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Samples will be disposed after 90 days from the date of issue of test certificate

* Information furnished by the client

*** End of the report***

SHIPRAMA Consulting Engineers Pvt. Ltd. Bangalore

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Sunitha.N.L AE WO

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ISO 9001:2015

Report No:SCEPL/MT/May/05/01/01/2020-21 **Date:09.05.2020**

TEST REPORT

***Client Name& Address:**	Asst. Executive Engineer Vidyaranya Pura Sub Division BBMP, Bangalore.
***Name of Work:**	Improvements to Roads and Drains at Doddabommasandra Old village , Subbanna Beedi and Surrounding areas in ward No 10 Doddabommasandra
***Letter Reference:**	No:BBMP/EE/BTP/WO/208/2019-20 Dated- 10.03.2020
SCEPL ID	SCEPL/MT/2020/May/05/02
Agency	
Source of Sample:	Samples supplied by the Customer
Date of Receipt:	02.05.2020
Sample Type/Size/ Grade/Age:	CC Cubes/150mmx150mmx150mm/7 days Compressive Strength
Reference to BIS codes:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
***Grade of concrete**	M20
***Location**	U Drain Bottom Raft

Compressive strength of Concrete cube

Sl. No.	Identification mark	Date of Casting	Date of Testing	Dimension of the Specimen mm			Cross sectional area (Sq.mm)	Weight (kg)	Failure Load (kN)	Compressive strength (N/mm2)	Average Compressive Strength (N/mm^2)
				L	B	H					
3	May/02/01-07	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.050	365.9	16.26	16.47
	May/02/01-08	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.100	356.7	15.86	
	May/02/01-09	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	388.5	17.28	
4	May/02/01-10	02.05.2020	09.05.2020	150.0	150.0	149.9	22500	8.050	345.9	15.37	15.58
	May/02/01-11	02.05.2020	09.05.2020	150.0	149.9	150.0	22485	8.100	336.7	14.97	
	May/02/01-12	02.05.2020	09.05.2020	149.9	150.0	149.8	22485	8.250	368.5	16.39	

Remarks:-

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* Information furnished by the client

*** End of the report***

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